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APPLICATION NO. FILING		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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OPPENHE P. O. BOX		OLFF & DONN	LAYE, I	LAYE, JADE O	
PALO ALTO, CA 94303				ART UNIT	PAPER NUMBER
	,			2617	

DATE MAILED: 07/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/892,015	HOANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jade O. Laye	2614				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory provided to the period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rent. a reply within the statutory minimum of thirt eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2	Responsive to communication(s) filed on <u>25 June 2001</u> .					
2a) This action is FINAL . 2b) ⊠	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for all	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-44 is/are pending in the applica	4) Claim(s) 1-44 is/are pending in the application.					
4a) Of the above claim(s) is/are with	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-44</u> is/are rejected.						
	Claim(s) <u>19 and 42</u> is/are objected to.					
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>27 August 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) Ine oath or declaration is objected to by th	e Examiner. Note the attached	Oπice Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority docum						
2. Certified copies of the priority docum						
3. Copies of the certified copies of the	· ·	received in this National Stage				
application from the International Bu		raceivad				
* See the attached detailed Office action for a	i list of the certified copies not	received.				
Attachment(s)						
8/19/03						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948	Paper No(s	s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 6/25/01, 7/19/01, 12/6/0	$(1, 12/7/01)$ 6) \square Other: \square	nformal Patent Application (PTO-152) —·				

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statements (IDS) submitted on 6/25/01, 7/19/01, 12/10/01, 2/6/02, 11/21/02, 5/10/03, and 9/20/03 are in compliance with the provisions of 37 CFR 1.97. Accordingly, each information disclosure statement has been considered by the examiner.

Claim Objections

- 2. Claims 19 and 42 are objected to because of the following informalities:
 - a. Claim 19 is identical to claim 4. Applicant is advised that should claim 4 be found allowable, claim 19 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).
 - b. Claim 42 appears to contain a typo in the phrase "...an additionally a signal...".

 Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

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subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 2, 14, 15, 21-23, 26, 27, and 43 are rejected under 35 U.S.C. 102(e) as being

anticipated by Medvinsky. (US Pat. No. 6,754,908).

As to claim 1, Medvinsky discloses a system capable of detecting a hacked set top box

(STB), which comprises a data bus, digital communications link, memory capable of

determining whether STB is authorized and performing anti-counterfeit measures if system is not

authorized, and a processing unit (i.e., controller) which controls the STB analysis. (Fig. 2; Col.

3, Ln. 15-19; Col. 4, Ln. 19-46; Col. 7, Ln. 33-48; Col. 9, Ln. 1-6 & 46-54). Medvinsky

further teaches the system transmits a modulated digital signal. (Col., 3, Ln. 15-19). Therefore,

it is inherent the system also contain a digital decoder. Accordingly, Medvinsky anticipates each

and every limitation of claim 1.

The limitations of claim 26 are encompassed within claim 1. Therefore, it is analyzed

and rejected as previously discussed.

As to claim 2, Medvinsky further teaches said memory can be RAM used to store

authorizations, keys, and serial numbers. (Col. 4, Ln. 39-46). The Examiner interprets persistent

to refer to long term (since Applicant provided no clear definition). Therefore, RAM would also

meet the persistent limitation of claim 2. Accordingly, Medvinsky anticipates each and every

limitation of claim 2.

As to claims 14 and 15, Medvinsky further teaches a key is transmitted once the STB is

determined to be authorized. (Col. 1, Ln. 31-42 & col. 6, Ln. 15-22). This key is used to enable

the STB (i.e., update the protocol) to decrypt the incoming signal. Accordingly, Medvinsky

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anticipates each and every limitation of claims 14 and 15. (Note: The limitations of claim 15 are essentially the same as claim 14, therefore it is analyzed and rejected accordingly.)

Claim 27 corresponds to the apparatus claim 14. Thus, it is anticipated and rejected as previously discussed.

As to claim 21, Medvinsky further teaches the system contains a television display (i.e., graphic display). (Fig. 2). Accordingly, Medvinsky anticipates each and every limitation of claim 21.

As to claim 22, the limitations recited therein are combinations of limitations found in claims 1 and 14. Therefore, it is analyzed and rejected accordingly.

As to claim 23, the limitations recited therein mirror those of claim 2. Thus, it is analyzed and rejected as previously discussed.

As to claim 43, the limitations recited therein are encompassed within the limitations of claim 1. However, for clarification a few limitations will be addressed here. Specifically, Medvinsky discloses a data file (i.e., data block) having an authenticity checker (i.e., authorization data structure) embedded within it. (Figs. 1, 3, 4, & 5). This file is transmitted to the STB, where said authorization checker searches the STB for verification. Once verified, the data file may be restored via the use of a decryption device, such as a key. (Col. 1, Ln. 54-63). The remainder of the limitations were addressed under claim 1. Accordingly, Medvinsky anticipates each and every limitation of claim 43.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 3 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Medvinsky in view of Spies et al. (US Pat. No. 6,055,314).

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Claim 3 recites the STB of claim 2, wherein said persistent storage device is a hard disk. As discussed above, Medvinsky contains all limitations of claim 2, but fails to specifically disclose the use of a hard disk. However, within the same field of endeavor, Spies discloses a similar system which utilizes an IC card (i.e., hard disk) used to store decryption (i.e., authorization) information. (Col. 2, Ln 25-42). Accordingly, it would have been obvious to one of ordinary skill in this art at the time of applicant's invention to combine the systems of Medvinsky and Spies in order to supply an anti-counterfeiting system comprising a hard disk, thereby providing an effective means for video distributors to upgrade and/or modify security schemes.

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Claim 24 corresponds to claim 3. Thus, it is analyzed and rejected as previously discussed.

5. Claims 4-13, 19, 25, 28, 29, 31-42, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Medvinsky in view of Bock et al. (US Pat. No. 5,953,418).

Claim 4 recites the STB of claim 1, further comprising a STB authenticity code hidden within the STB hardware, wherein said software for determining whether STB is authentic includes software for performing an integrity check upon said hidden code. As discussed above, Medvinsky contains all limitations of claim 1, but fails to specifically recite the limitations of claim 4. However, within the same field of endeavor, Bock discloses a similar system, which analyzes a code (i.e., board ID) hidden within the STB hardware in order to ascertain whether the STB is meant (i.e., authorized) to receive the transmitted data. (Col., 1, Ln. 57-67; Col. 15, Ln. 5-15; Col. 20, Ln. 38-56). Accordingly, it would have been obvious to one of ordinary skill in

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this art at the time of applicant's invention to combine the systems of Medvinsky and Bock in order to supply a system capable of analyzing a hidden code within a STB, thereby providing a system which keeps track of intended recipient receivers.

The limitations of claim 19 are identical to those of claim 4. Thus, it is analyzed and rejected as previously discussed.

The limitations of claim 25 are encompassed within the limitations of claim 4. Thus, it is analyzed and rejected as previously discussed.

Claims 5 and 6 recite the STB of claim 4, wherein said integrity check involves performing a cyclic redundancy check and a checksum, respectively. As discussed above, the combined systems of Medvinsky and Bock disclose all limitations of claim 4, and Medvinsky further teaches the use of a cyclic redundancy check and a checksum. (Col. 6, Ln. 50-56). Accordingly, the combined systems of Medvinsky and Bock contain all limitations of claim 5.

Claim 7 recites the STB of claim 4, wherein said integrity check involves querying a location wherein said STB authenticity code is hidden. As discussed above, the combined systems of Medvinsky and Bock disclose all limitations of claim 4, and Bock further teaches the board ID is located within board ID register 185. (Col. 20, Ln. 38-65). Therefore, the system must query the board ID register in order to determine authorization. Accordingly, the combined system of Medvinsky and Bock contain all limitations of claim 7.

Claims 8 and 9 recite the STB of claim 4, wherein said integrity check involves performing an image check upon said STB. (Note: Claim 9's limitations are encompassed within the limitations of claim 8). As discussed above, the combined systems of Medvinsky and Bock disclose all limitations of claim 4, and also disclose the limitations of claims 8 and 9.

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Since Applicant provided no clear definition of "image check" the Examiner broadly interprets

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this term to refer to <u>any</u> check upon the STB. Thus, the same rejection applied under claim 4 can

be applied here because an "image check" can be broadly interpreted as almost any check

imposed upon the STB, including checking for hidden codes as recited in claim 4. When the

combined system analyzes the hidden STB code, it is essentially performing an image check

upon the STB. Therefore, the combined systems of Medvinsky and Bock disclose all limitations

of claims 8 and 9.

Claims 10 and 11 recite the STB of claim 4, wherein said performing anti-counterfeiting

measures upon said STB when said device is determined to be counterfeit includes disabling and

damaging said STB, respectively. As discussed above, the combined systems of Medvinsky and

Bock disclose all limitations of claim 4, and Medvinsky further teaches the system will disable

functionality of the STB. (Col. 9, Ln. 1-6 & 45-55). The Examiner broadly interprets "disable

functionality" to encompass disabling or damaging the STB. A disabled STB could also be

considered damaged, and vice versa. Accordingly, the combined systems of Medvinsky and

Bock contain all limitations of claims 10 and 11.

Claim 12 recites the STB of claim 4, wherein said performing anti-counterfeiting

measures upon said STB when said device is determined to be counterfeit includes transmitting a

signal to a broadcast server indicating STB is counterfeit. As discussed above, the combined

systems of Medvinsky and Bock disclose all limitations of claim 4, and Medvinsky further

teaches the system sends an "exception" signal to the head end, which then flags the

unauthorized STB. (Col. 10, Ln. 46-56 & Col. 12, Ln. 1-3). Accordingly, the combined systems

of Medvinsky and Bock contain all limitations of claim 12.

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Claim 28 corresponds to claim 12. Thus, it is analyzed and rejected as previously discussed.

Claim 13 recites the STB of claim 12, wherein said signal includes info on the location of said STB. As discussed above, the combined systems of Medvinsky and Bock disclose all limitations of claim 12, and Medvinsky inherently teaches the limitations of claim 13. Medvinsky teaches that each STB has a unique address and that the system can report unauthorized STBs back to the head end. (Col. 3, Ln. 8-10; Col. 10, Ln. 40-46; Col. 11, Ln. 60-67 thru Col. 12, Ln. 1-3). Based upon this disclosure, it is inherent the system be able to locate specific STB in order to accurately and efficiently report them to the head end. Accordingly, the combined systems of Medvinsky and Bock disclose all limitations of claim 13.

Claims 29, 31, 32, and 33 recite the method of claim 28, wherein the message is sent via the Internet, telephone connection, broadband connection, and via a cable modem, respectively. As discussed above, the combined systems of Medvinsky and Bock disclose all limitations of claim 28, and Medvinsky further teaches the use of a network which can distribute data via packet switched networks (used in Internet communications), phone lines, satellite (i.e., broadband), or a cable modem. (Col. 3, Ln. 14-27 & 39-56). Accordingly, the combined systems of Medvinsky and Bock disclose all limitations of claim 29.

Claim 34 recites a counterfeit counter measure for transmission signal processors comprising limitations too numerous to list herein (please refer to claim sheet). The limitations of claim 34 are only combinations of limitations from claims 1 and 10. Thus, it is analyzed and rejected accordingly.

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limitations of claim 35.

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Claim 35 recites the counter measure of claim 34, wherein said authenticity checker is embedded in a protocol update. As discussed above, the combined systems of Medvinsky and Bock disclose all limitations of claim 34, and Medvinsky further teaches that a key (i.e., protocol update) can be embedded within the authorization data (i.e., authorization checker). (Col. 6, Ln. 4-29). In light of this disclosure, claim 35 would be a matter of simple design choice and an obvious variant. Accordingly, the combined systems of Medvinsky and Bock contain all

Claim 44 corresponds to claim 35. Thus, it is anticipated and rejected as previously discussed.

Claim 36 recites the counter measure of claim 34, wherein said authenticity verification is software. This limitation is encompassed within claim 1. Thus, it is analyzed and rejected accordingly.

Claim 37 recites the counter measure of claim 34, wherein said authenticity checker is hardware. This limitation is also encompassed within claim 1. Moreover, replacing hardware with software or vice versa is an obvious design choice. Thus, claim 37 is analyzed and rejected as previously discussed under claim 1.

Claims 38 and 39 correspond to the apparatus claims 10 and 11 respectively. Thus, each is analyzed and rejected as previously discussed.

Claims 40 and 41 recite the counter measure of claim 34, wherein said transmission signal is part of a uni-direction and bi-directional transmission system, respectively. As discussed above, the combined systems of Medvinsky and Bock disclose all limitations of claim 34, and further discloses a uni-directional transmission system (*Bock* Col. 3, Ln. 38-50) and a bi-

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directional transmission system (*Medvinsky* Fig. 1). Accordingly, the combined systems of Medvinsky and Bock contain all limitations of claim 40.

Claim 42 recites the counter measure of claim 41, and limitations that mirror those of claim 12. (Please refer to the claim sheet). Thus, it is analyzed and rejected accordingly.

6. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Medvinsky.

Claim 16 recites the STB of claim 15, wherein said broadcast signal encoded using said associated updated protocol is transmitted at a predetermined time. As discussed above, Medvinsky discloses all limitations of claim 15, and also discloses the limitations of claim 16. In Col. 1, Ln. 31-43, Medvinsky discloses a pay per view system in which keys are used to enable receivers to decode video signals. It is fundamental to any pay per view system that keys be transmitted only after a receiver is believed to be authorized (i.e., predetermined time). Therefore, although this limitation is not specifically stated, it was suggested by Medvinsky. Thus, it would have been obvious to one of ordinary skill in this art at the time of applicant's invention to modify the system of Medvinsky to include transmitting keys at predetermined times, thereby providing a system which achieves the objectives of pay per view programming.

Claim 17 recites the STB of claim 16, wherein said STB is no longer able to decode broadcast signals encoded using the protocol used to encode broadcast signals transmitted before said predetermined point in time. As discussed above, Medvinsky discloses all limitations of claim 16, and further teaches the STB authorization only lasts for a predetermined time period. (Col. 6, Ln. 25-26). Accordingly, Medvinsky discloses all limitations of claim 17.

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7. Claims 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Medvinsky as applied to claim 15 above, and further in view of Tomizawa (US Pat. No.

4,250,524) and further in view of Bertram. (US Pat. Pub. No. 2002/0010920).

Claim 18 recites the STB of claim 15, wherein said protocol updating includes listening

at a predetermined time and channel for a signal containing info for enabling said STB. As

discussed above, Medvinsky discloses all limitations of claim 15, but fails to specifically recite

the limitations of claim 18. However, within the same field of endeavor, Tomizawa discloses a

similar system in which a key code is sent at a predetermined time. (Col. 1, Ln. 49-65). Also

within the same field of endeavor, Bertram discloses a similar system wherein the systems tunes

to a particular channel in anticipation of a descrambling message. (Pars. [0012, 0020 & 0043]).

Accordingly, it would have been obvious to one of ordinary skill in this art at the time of

applicant's invention to combine the systems of Medvinsky, Tomizawa, and Bertram in order to

provide session-based conditional access to on-demand content of variable duration.

Claim 20 recites the STB of claim 18, wherein said protocol updating includes altering at

least a portion of said STB's existing communications protocol such tat said STB is able to

decipher signals transmitted using an updated communications protocol. As discussed above, the

combined systems of Medvinsky, Tomizawa, and Bertram disclose all limitations of claim 18,

and Medvinsky further teaches the limitations of claim 20. The limitations of claim 20 mirror

those of claim 14, therefore, it is analyzed and rejected as previously discussed.

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8. Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Medvinsky in

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view of Bock as applied to claim 28 above, and further in view of Spies et al. (US Pat. No.

6,055,314).

Claim 30 recites the method of claim 28, wherein said predetermined location is a bi-

directional DOD server. As discussed above, the combined systems of Medvinsky and Bock

disclose all limitations of claim 28, and Medvinsky further teaches the use of a bi-directional

system. (Fig. 1). But, the combined references fail to specifically disclose the remaining

limitations of claim 30. However, within the same field of endeavor, Spies discloses a similar

system which delivers video on demand. (Col. 13, Ln. 67 thru Col. 14, Ln. 1-7). Accordingly, it

would have been obvious to one of ordinary skill in this art at the time of applicant's invention to

combine the systems Medvinsky, Bock, and Spies in order to supply an anti-counterfeiting

system which also delivers video on demand, thereby allowing a user to receive programming at

his or her convenience.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

a. Grube et al (US Pat. No. 5,388,212) disclose a system capable of detecting

modified receivers.

b. Kahn (US Pat. No. 5,978,649) discloses a system capable of dynamic channel

authorization.

Examiner's NFR - Pg. 13 of 14.

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c. Naito (US Pat. No. 4,550,341) disclose a system capable of preventing

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unauthorized observations.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jade O. Laye whose telephone number is (571) 272-7303. The

examiner can normally be reached on Mon. 7:30am-4, Tues. 7:30-2, W-Fri. 7:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Miller can be reached on (571) 272-7353. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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Examiner's Initials TC

May 19, 2005.

JOHN MILLER

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600